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NOTICE OF ALLOWANCE AND FEE(S) DUE

27765

7590

10/07/2008

NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116 EXAMINER
CHIO, TAT CHI
ART UNIT PAPER NUMBER

2621

DATE MAILED: 10/07/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,352	07/04/2002	Kuan-Chou Chen	MTKP0006USA	9618

TITLE OF INVENTION: DVD-ROM CONTROLLER AND MPEG DECODER WITH SHARED MEMORY CONTROLLER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	01/07/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance on the nerwise in Block 1, by (a	rders and notification of a) specifying a new co	of ma orresp	aintenance fees wondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corresp rate "F	pondence address as FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
NORTH AME P.O. BOX 506 MERRIFIELD,		72008 CTUAL PROPERT	S	States addre	by certify that this Postal Service was seed to the Mail	s Fee(s ith suf Stop	of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	g depos st class above,	sited with the United mail in an envelope or being facsimile
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO:	RNEY DOCKET NO.	CON	FIRMATION NO.
10/064,352 TITLE OF INVENTION	07/04/2002 ī: DVD-ROM CONTRO	OLLER AND MPEG DEC	Kuan-Chou Chen CODER WITH SHARE	D M	EMORY CONTR		TTKP0006USA R		9618
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	YES	\$755	\$300		\$0		\$1055		01/07/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	\neg					
CHIO, T	ГАТ СНІ	2621	386-116000						
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
recordation as set fort (A) NAME OF ASSI	th in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	T a substitute for filing (B) RESIDENCE: (Cl	an as ITY a	ssignment. and STATE OR C	OUNT	TRY)		
Please check the appropriate assignee category or categories (will not be 4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
a. Applicant claim	atus (from status indicated as SMALL ENTITY status of Publication Fee (if reg		☐ b. Applicant is no	longe	er claiming SMAI	L EN	ΓΙΤΥ status. See 37 C		
interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.	an tili	с аррисан, а геди	mercu è	morney or agent, of th	45518	nee or outer party III
Authorized Signature					Date				
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This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Jirginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the ire COMPLETED FORMS	or re estindivide fficer TO	tain a benefit by the mated to take 12 r dual case. Any co , U.S. Patent and THIS ADDRESS	ne publ ninutes mment Traden . SENI	ic which is to file (and to complete, including s on the amount of times ark Office, U.S. Dep D TO: Commissioner	I by the ig gathe me you artment for Pate	e USPTO to process) ering, preparing, and require to complete t of Commerce, P.O. ents, P.O. Box 1450,

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P.O. BOX 506		ART UNIT	PAPER NUMBER				
MERRIFIELD, VA 22116			2621				
			DATE MAILED: 10/07/2008				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1181 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1181 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
	10/064,352	CHEN, KUAN-CHOU					
Notice of Allowability	Examiner	Art Unit					
	TAT CHI CHIO	2621					
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOS or other appropriate of GHTS. This application	SED in this application. If not included ommunication will be mailed in due course. THIS					
1. This communication is responsive to <u>5/8/2008</u> .							
2. The allowed claim(s) is/are <u>1-3,6-9,12,14-17 and 19</u> .							
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in App	olication No					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give							
5. CORRECTED DRAWINGS (as "replacement sheets") mus	5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.						
(a) 🔲 including changes required by the Notice of Draftspers	on's Patent Drawing F	Review (PTO-948) attached					
1) hereto or 2) to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t							
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT							
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.	e of Informal Patent Application iew Summary (PTO-413), er No./Mail Date iner's Amendment/Comment iner's Statement of Reasons for Allowance					
	9. ☐ Other /Thai Trar						
	Superviso	ry Patent Examiner, Art Unit 2621					

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James Long on 9/26/2008

The change made to the claims is: add the limitation "wherein the communication pathway directly links the servo control and ECC decoder circuit with the graphics decoding circuit, and the register accessible by the graphics decoding circuit enables the graphics decoding circuit to directly access the decoded data through the memory controller" from claim 18 to the independent claim 1 and claim 12 and cancel claim 18. The limitation of claim 18 is added to the independent claim 1 so that claim 1 becomes:

An electronic circuit comprising:

a servo control and ECC decoder circuit ... wherein the servo control and ECC decoder circuit further comprises a register accessible by the graphics decoding circuit that indicates the location of decoded data in the external memory, wherein the communication pathway directly links the servo control and ECC decoder circuit with the graphics decoding circuit, and the register accessible by the graphics decoding circuit enables the graphics decoding circuit to directly access the decoded data through the memory controller.

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The limitation of claim 18 is added to the independent claim 12 so that claim 12 becomes:

An electronic circuit fabricated on a monolithic substrate, the circuit comprising:
a servo control and ECC decoder circuit for controlling ... a third register
indicating a size of the decoded data; wherein the communication pathway directly links
the servo control and ECC decoder circuit with the graphics decoding circuit, and the
register accessible by the graphics decoding circuit enables the graphics decoding
circuit to directly access the decoded data through the memory controller.

The present invention is directed to an electronic circuit with a single memory controller. Each independent claim identifies the uniquely distinct feature "the communication pathway directly links the servo control and ECC decoder circuit with the graphics decoding circuit, and the register accessible by the graphics decoding circuit enables the graphics decoding circuit to directly access the decoded data through the memory controller". The closest prior art, Shim (5,970,208), Romano et al. (5,586,306) and Yuen et al. (US 2003/0190138 A1) disclose conventional electronic circuits, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAT CHI CHIO whose telephone number is (571)272-

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9563. The examiner can normally be reached on Monday - Thursday 9:00 AM-5:00 PM

EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thai Tran can be reached on (571)-272-7382. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. C. C./

Examiner, Art Unit 2621

/Thai Tran/

Supervisory Patent Examiner, Art Unit 2621